



US00RE41846E

(19) **United States**
(12) **Reissued Patent**
Lee et al.

(10) **Patent Number:** **US RE41,846 E**
(45) **Date of Reissued Patent:** **Oct. 19, 2010**

(54) **WIRELESS DEVICE AND METHOD OF OPERATING THE SAME**

6,038,313	A	3/2000	Collins	
6,192,258	B1 *	2/2001	Kamada et al.	455/566
6,300,947	B1	10/2001	Kanevsky	
6,324,386	B1	11/2001	Headon	
6,445,932	B1	9/2002	Soini et al.	
6,519,483	B1	2/2003	Watanabe	
6,600,930	B1	7/2003	Sakurai et al.	
2002/0049833	A1	4/2002	Kikinis	

(75) Inventors: **Young Min Lee**, Seoul (KR); **Seong Tae Kwon**, Seoul (KR)

(73) Assignee: **LG Electronics Inc.**, Seoul (KR)

(21) Appl. No.: **11/178,265**

FOREIGN PATENT DOCUMENTS

(22) Filed: **Jul. 11, 2005**

EP	0 472 361	2/1992
JP	5-30166	2/1993
JP	08063437	3/1996
JP	09018931	1/1997
JP	11-55416	2/1999
JP	2000-124977	4/2000

Related U.S. Patent Documents

Reissue of:

(64) Patent No.: **6,785,562**
Issued: **Aug. 31, 2004**
Appl. No.: **09/861,592**
Filed: **May 22, 2001**

(Continued)

Primary Examiner—Keith T Ferguson

(74) *Attorney, Agent, or Firm*—McKenna Long & Aldridge

(30) **Foreign Application Priority Data**

May 23, 2000	(KR)	2000-27766
Oct. 4, 2000	(KR)	2000-58202
Dec. 22, 2000	(KR)	2000-80423

(57) **ABSTRACT**

The cellular phone of the present invention includes a display device provided on the front surface of a main body, and a cover movable relative to and preferably, rotatably mounted on, the main body and having keypads provided on the front and rear surfaces thereof, respectively. A plurality of number keys for a mobile communication are preferably arranged on the keypad provided on the front surface of the cover, and a plurality of character keys for the Internet are preferably arranged on the keypad provided on the rear surface of the cover. Also, another keypad wherein keys for the mobile communication and the Internet are arranged may be provided on the main body. The cover may be in the form of a flip or folder. The cover may have an area smaller than the main body or a window so that a portion of the display device is exposed even when the cover is closed. Meanwhile, information that conforms with the exposed portion of the display device is provided from the server to the display device in dependence with the open/close state of the cover. The cellular phone having the improved cover can be advantageously used as a future web phone, digital phone, or Internet phone.

(51) **Int. Cl.**
H04Q 7/32 (2006.01)

(52) **U.S. Cl.** **455/566**; 455/575.1; 455/556.1; 455/90.3; 455/575.3; 455/550.1; 455/556.2; 455/557; 379/433.01; 379/433.04; 379/433.13; D14/140; D14/150

(58) **Field of Classification Search** 455/566, 455/556.1, 556.2, 557, 550.1, 90.1, 90.2, 455/90.3, 575.1, 575.3, 445, 466, 500, 517; 379/433.01, 433.04, 433.13; D14/138, 140, D14/150; 345/342, 343, 346; 709/218, 219, 709/216

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D326,091	S	5/1992	Kikuchi
5,189,632	A	2/1993	Paajanen et al.
5,584,054	A	12/1996	Tyneski et al.

51 Claims, 12 Drawing Sheets

